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Applicant : D. Amnon Silverstein

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Title : POINTING DEVICE FOR DIGITAL CAMERA DISPLAY

Commissioner for Patents

P.O. Box 1450

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EXHIBIT I

CERTIFICATE OF MAILING

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e-mail from june 99

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(1.37.109.10G/15.5+ECS 3.3+HPL1.1) id AA002560185; Wed, 30 Jun 1999 12:16:25 -0700
Return-Path: <amnon@hpl.hp.com>
Received: from hpl.hp.com (poppy.hpl.hp.com [15.4.91.177])
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Wed, 30 Jun 1999 12:05:47 -0700 (PDT)
Message-Id: <377A6A07.C9942B22@hpl.hp.com>
Date: Wed, 30 Jun 1999 12:03:35 -0700
From: Amnon Silverstein <amnon@hpl.hp.com>
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To: farrell@hpl.hp.com, Amnon Silverstein <amnon@hpl.hp.com>
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Progress Report
June 1999

Interviewed and hired two SEED interns from U.C. Berkeley. Set them up with computers and etc.

Capybara 1999

Hardware:

Completed our first prototype. It is very large, but it has most of the functionality we plan to include in the final prototype. This prototype includes a camera (using a standard Microsoft interface and USB), an HP microdisplay, motion tracking (by means of either CAST image motion or gyroscope), and control buttons (also USB). I reviewed the specifications of many different motion tracking systems, and I found a very inexpensive and suitable device.

Started work on the new prototype, which will be in approximately the final format. It is much smaller and it will be easier to use.

Software:

Supervised the interns with the development of the software. The software so far includes:

Motion tracking, using CAST

A virtual panoramic mode, where the camera's motion is used to control visual motion

A thumbnail selection tool, that also uses the camera's motion

A picture capture and delete tool, that uses closed-circuit video

Personal development

I have been attending night school classes in C++ to improve my proficiency in that language

Owl

I have continued meeting with the owl team once a week. I have discussed